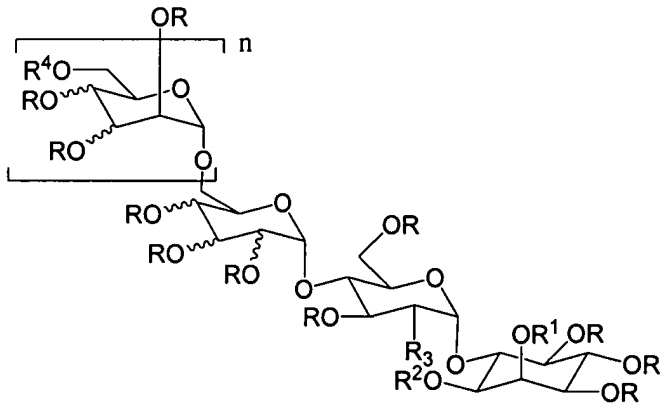
In the Claims:

1. **(currently amended)** A compound represented by formula **I**:



I

wherein,

n is [[1,]] 3, or 4;

R represents independently for each occurrence H, alkyl, aryl, -CH_2-aryl, -C(O)-alkyl, -C(O)-aryl, or -Si(alkyl)$_3$;

R^1 and R^2 are independently H, -CH_2-aryl, -C(O)-alkyl, -C(O)-aryl, -Si(alkyl)$_3$; or R^1 and R^2 taken together are $C(CH_3)_2$, P(O)OH, or $P(O)OR^5$;

R^3 is amino, -N_3, or -NH_3X;

R^4 represents independently for each occurrence alkyl, aryl, -CH_2-aryl, -C(O)-alkyl, -C(O)-aryl, -Si(alkyl)$_3$, or -$P(O)(OR^5)_2$;

R^5 represents independently for each occurrence H, Li^+, Na^+, K^+, Rb^+, Cs^+, aryl, or an optionally substituted alkyl group; and

X is a halogen, alkyl carboxylate, or aryl carboxylate.

2. **(canceled)**

3. **(original)** The compound of claim 1, wherein n is 3.

4. **(original)** The compound of claim 1, wherein R is H.

5. **(original)** The compound of claim 1, wherein R^1 and R^2 taken together are $P(O)OR^5$.

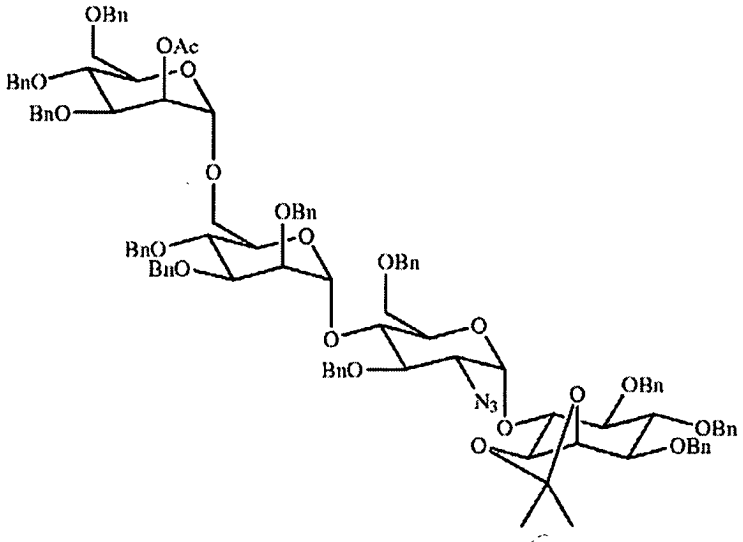
6. **(original)** The compound of claim 1, wherein R^3 is N_3.

7. **(original)** The compound of claim 1, wherein R^3 is $-NH_3X$.

8. **(previously presented)** The compound of claim 1, wherein R^4 represents independently for each occurrence $-CH_2Ph$, or $-Si(alkyl)_3$.

9. **(previously presented)** The compound of claim 1, wherein R^4 represents independently for each occurrence $-CH_2Ph$, -or $P(O)OR^5$; and R^5 is an optionally substituted alkyl group.

10. **(currently amended)** A compound selected from the group consisting of: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OAc
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OBn
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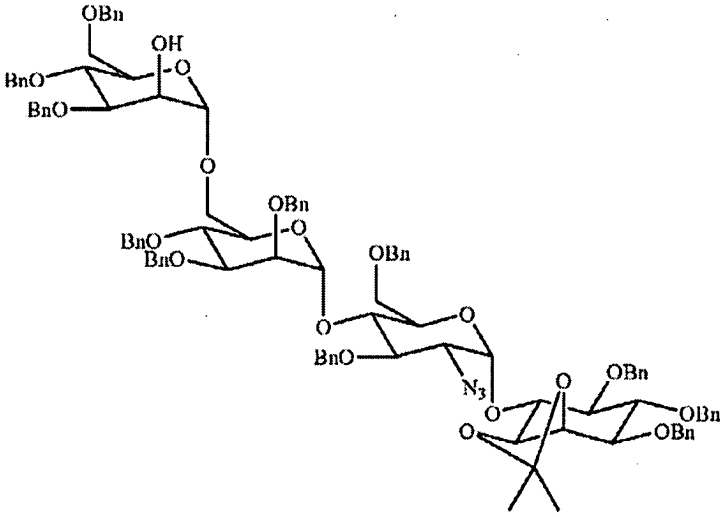
BnO
OBn
O
O
BnO
N3
O
O
OBn
OBn
OBn

,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O
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BnO
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OBn

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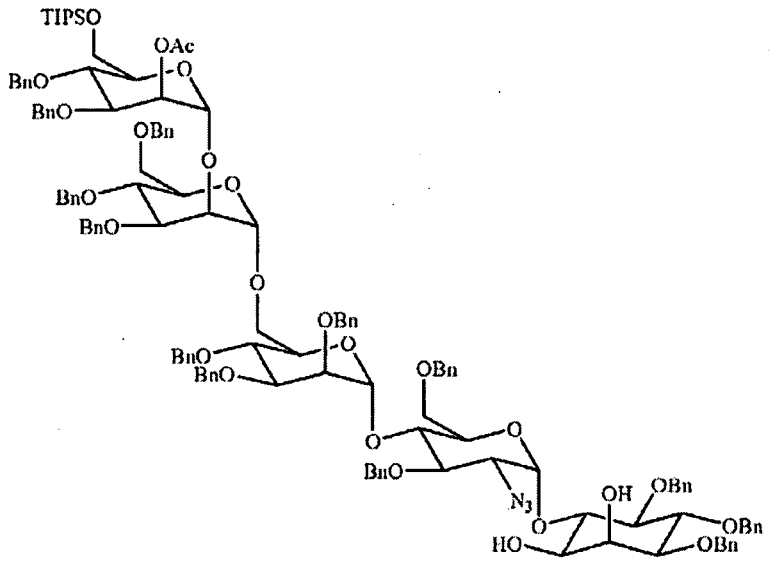
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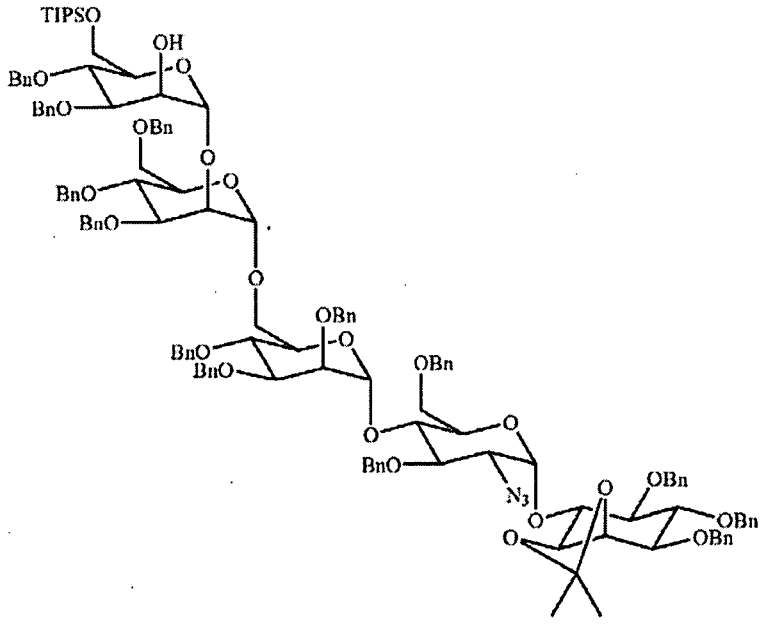
HO
OBn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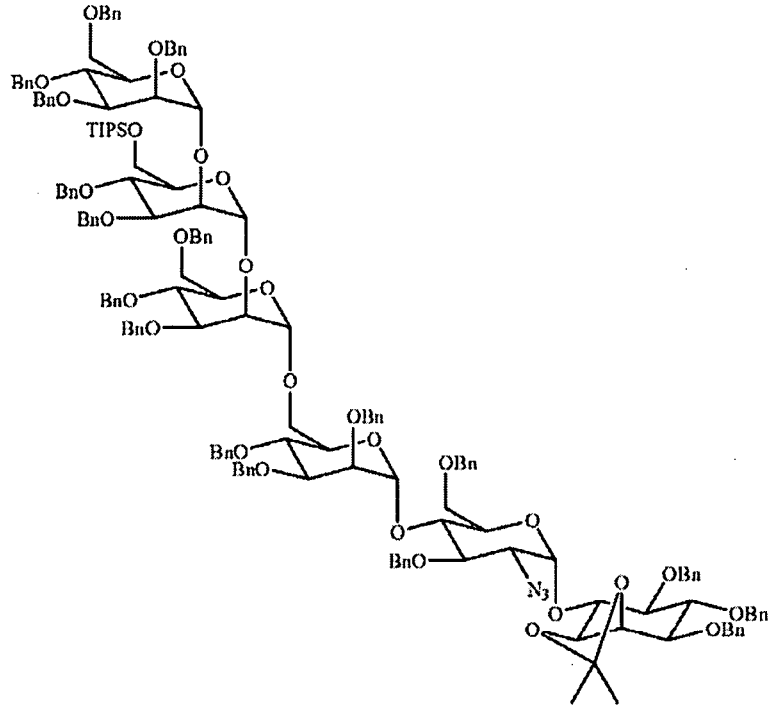

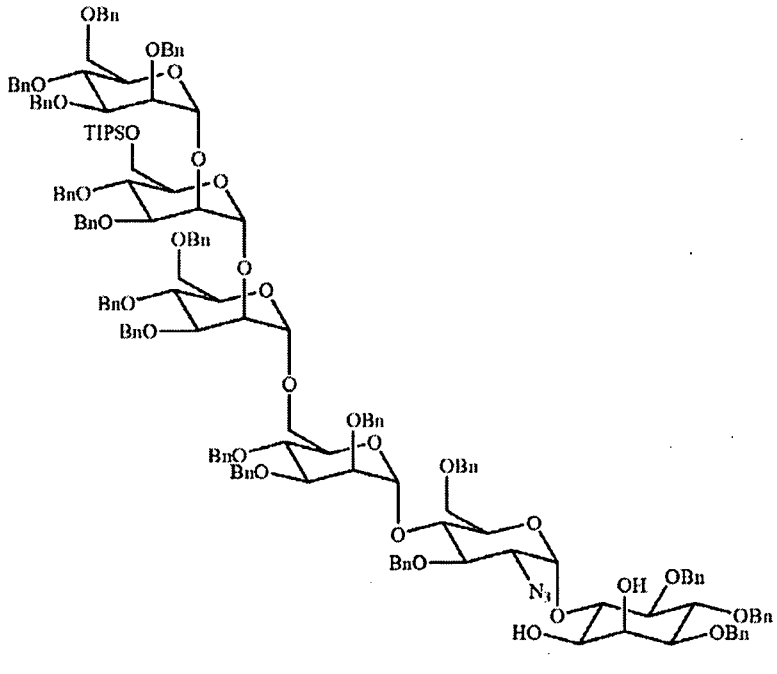

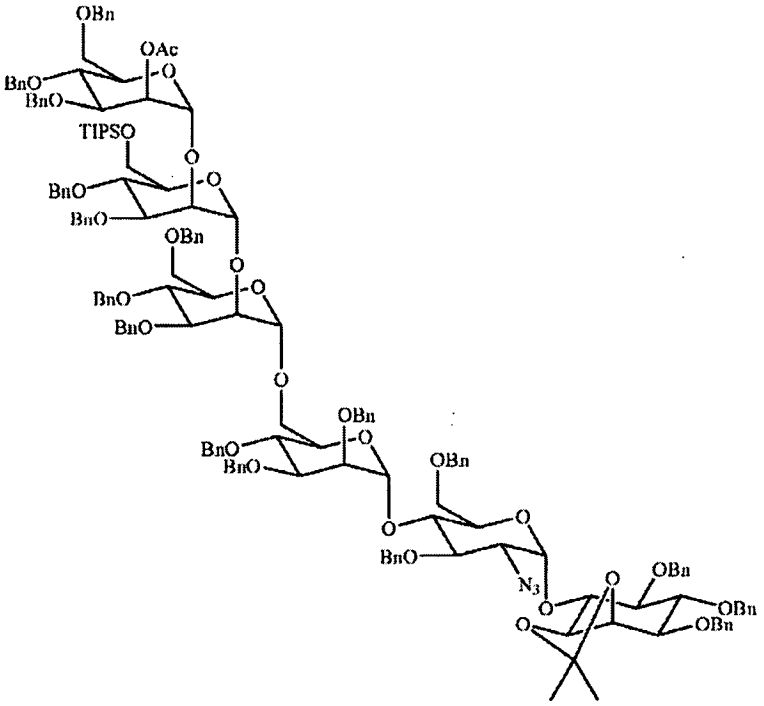

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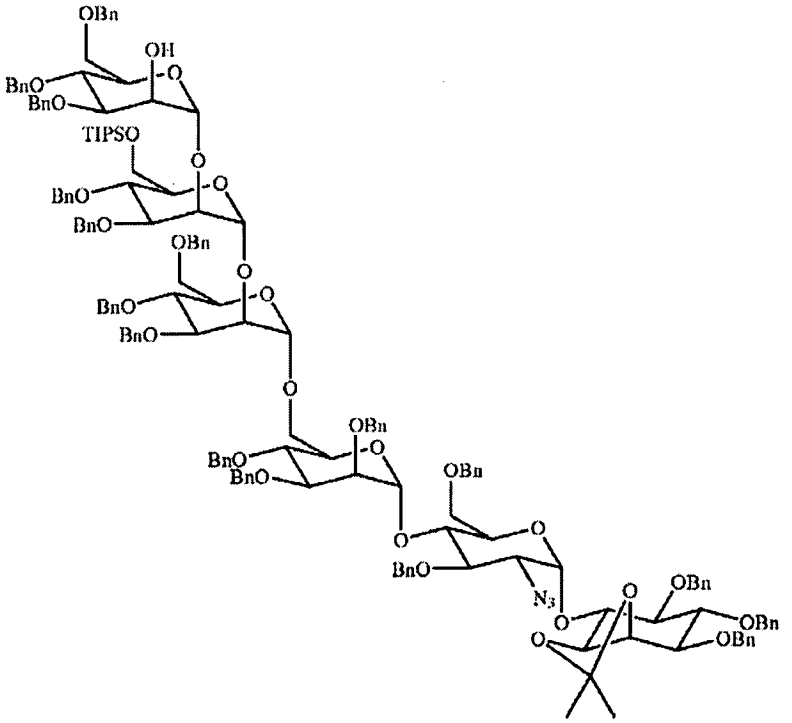

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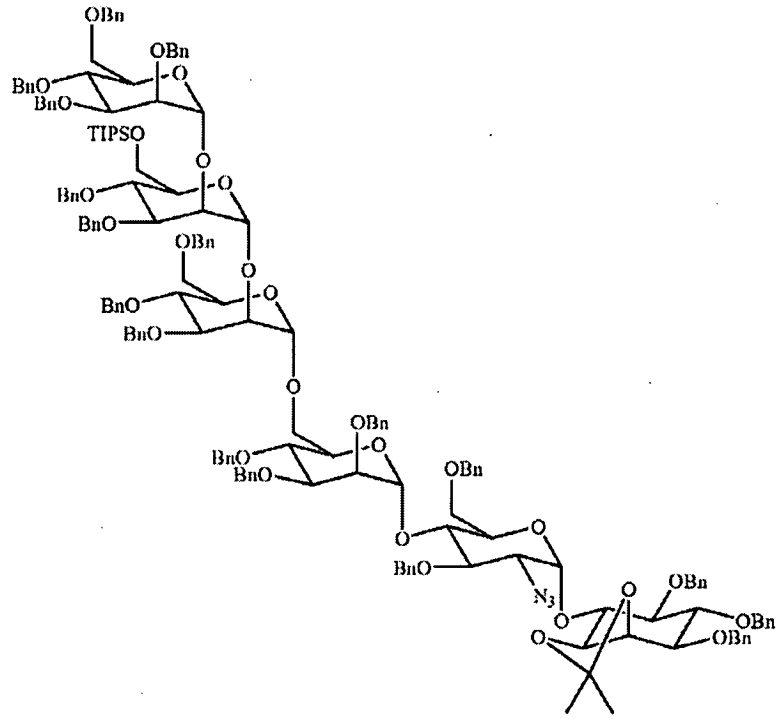
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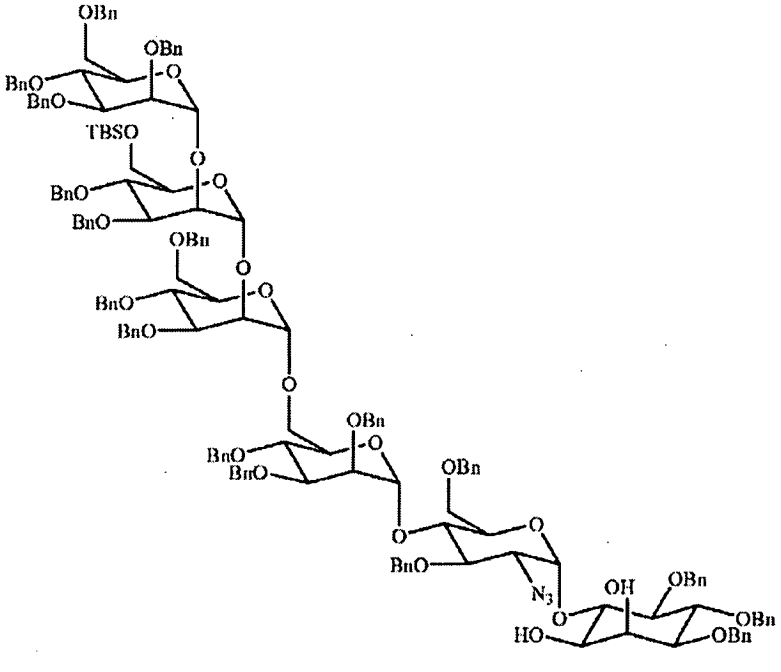
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OH
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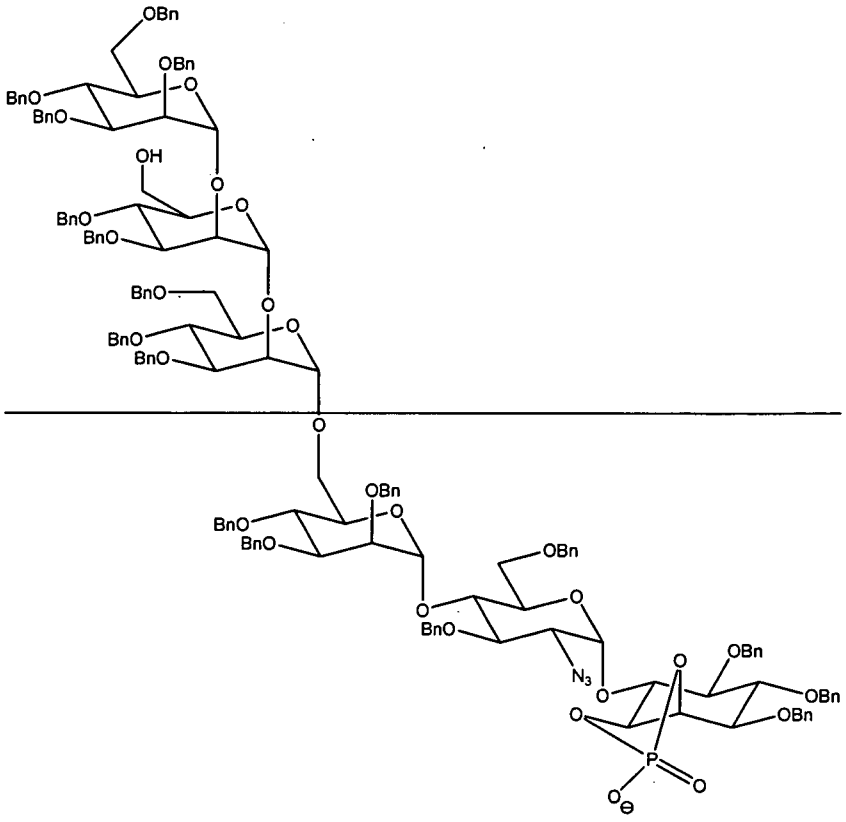

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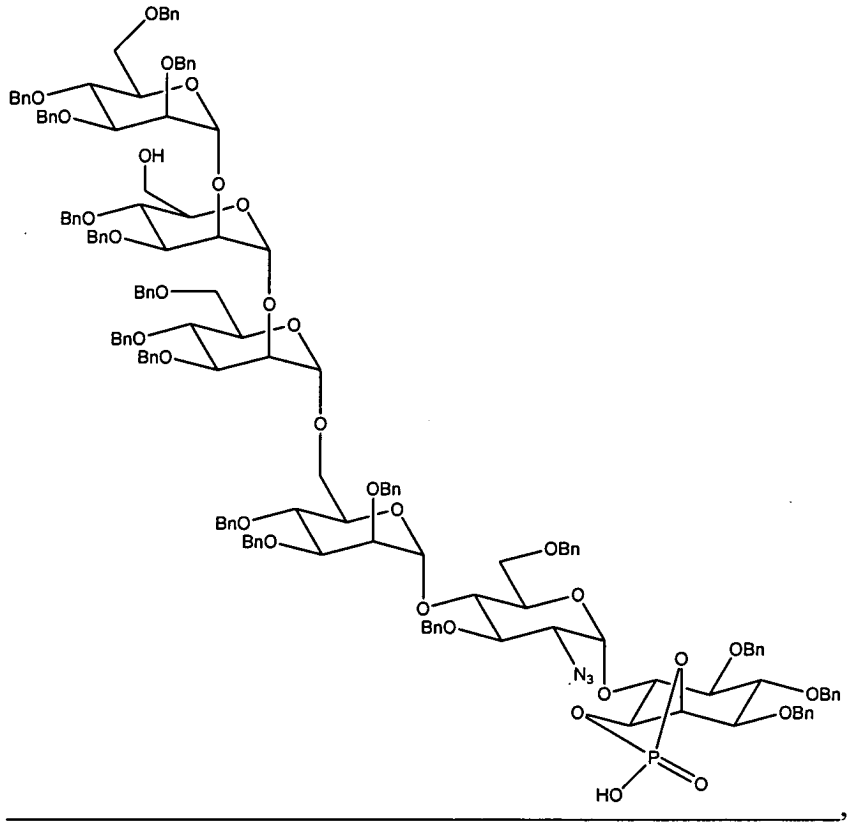

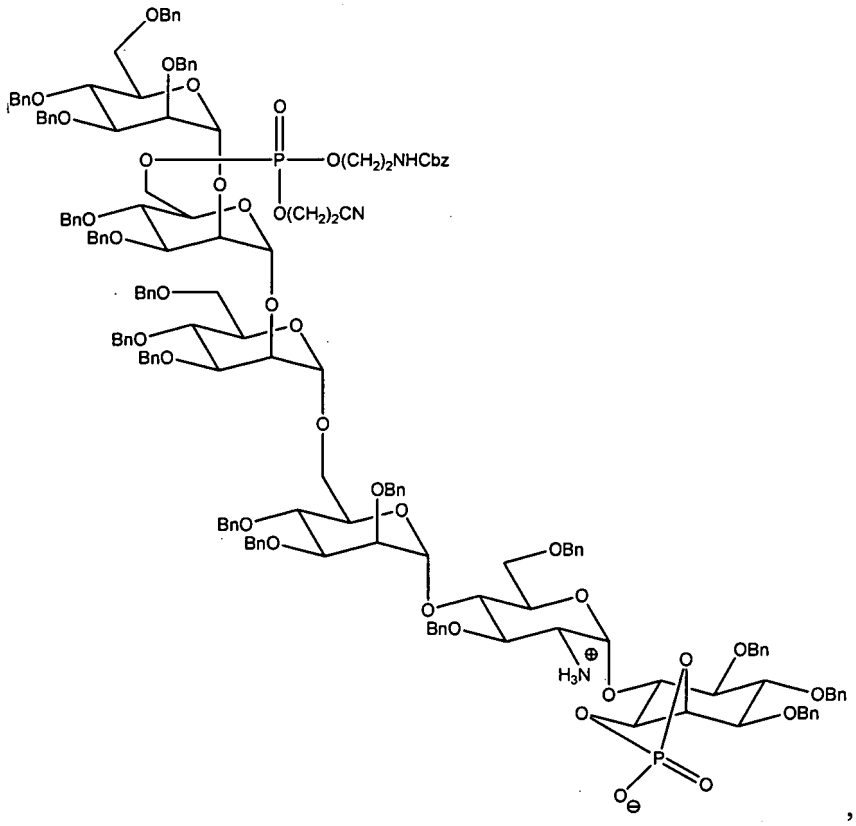
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O(CH2)2CN
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BnO
BnO
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BnO
OBn
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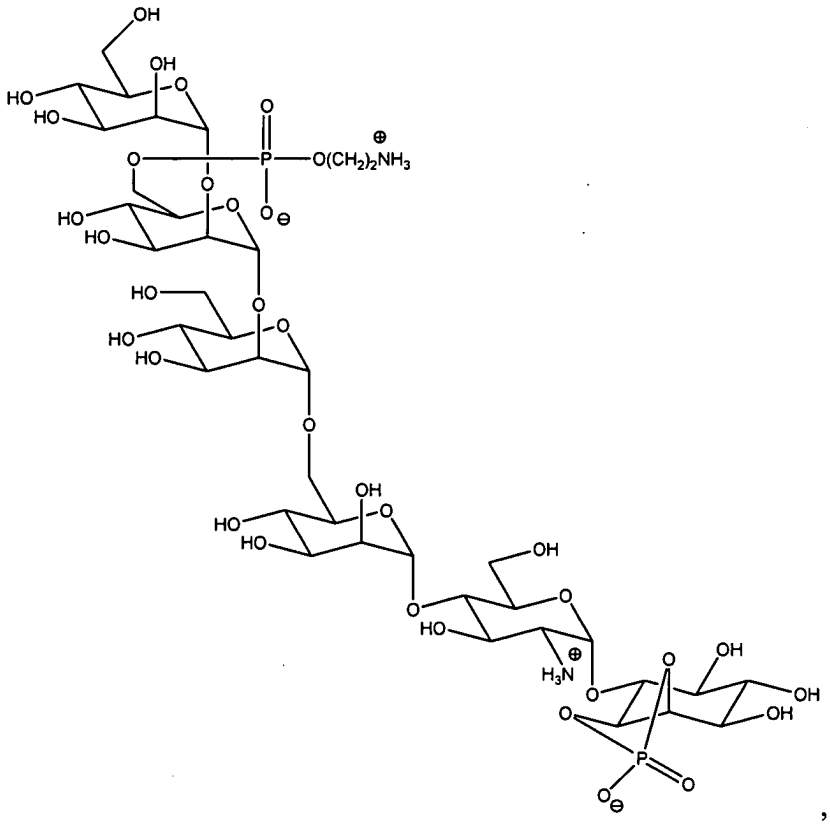
OBn
OBn
OBn
O
O
O
P
O



, and

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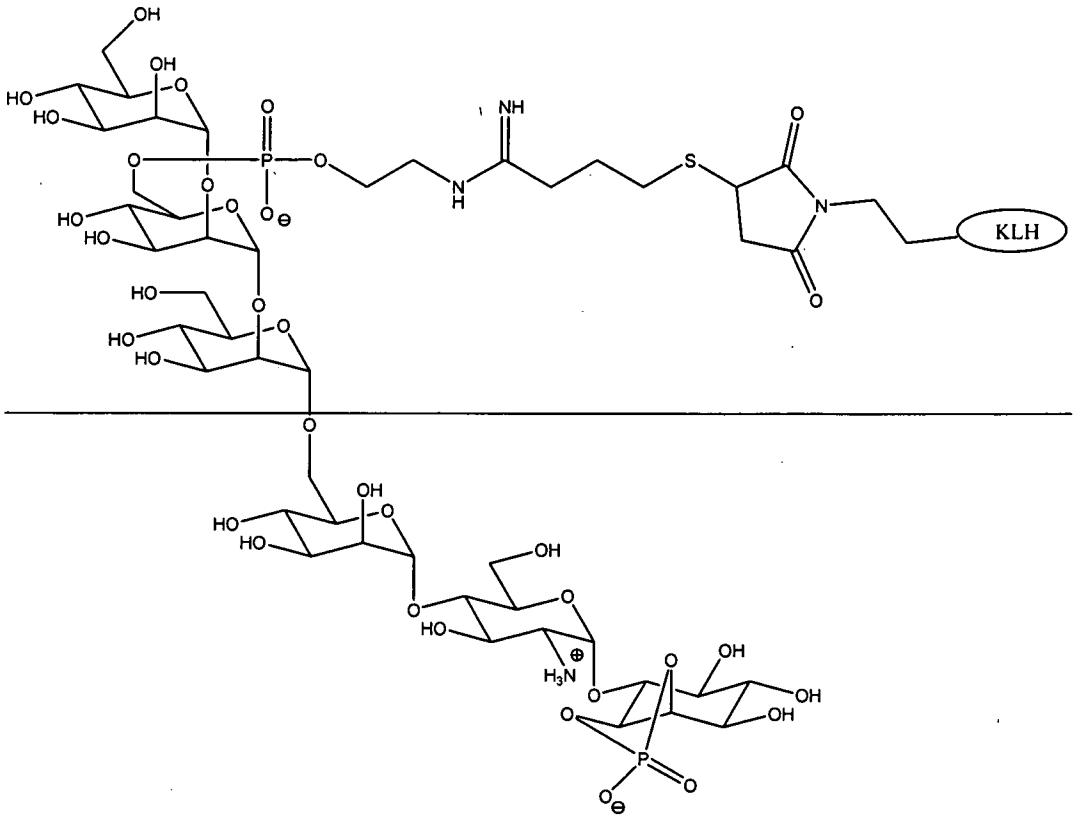
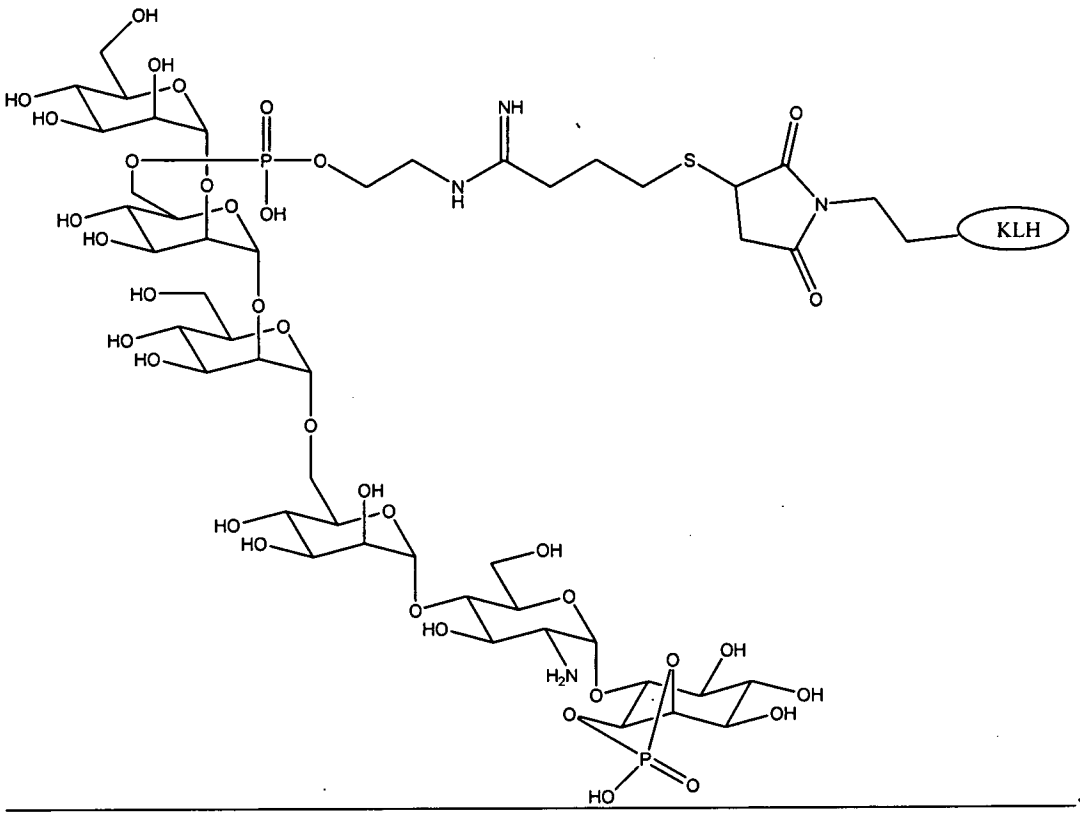
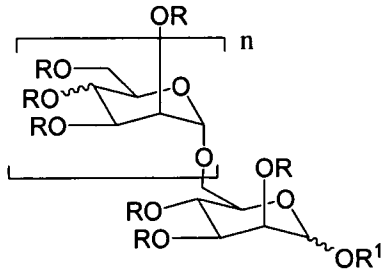




11. **(previously presented)** A compound represented by formula **II**:



II

wherein,

n is 3, or 4;

R represents independently for each occurrence H, alkyl, aryl, $-CH_2$-aryl, -C(O)-alkyl, -C(O)-aryl, or $-Si(alkyl)_3$;

R^1 is $-(CH_2)_mCH=CH_2$ or trichloroacetimidate; and

m is 1-6.

12. **(canceled)**

13. **(original)** The compound of claim 11, wherein n is 3.

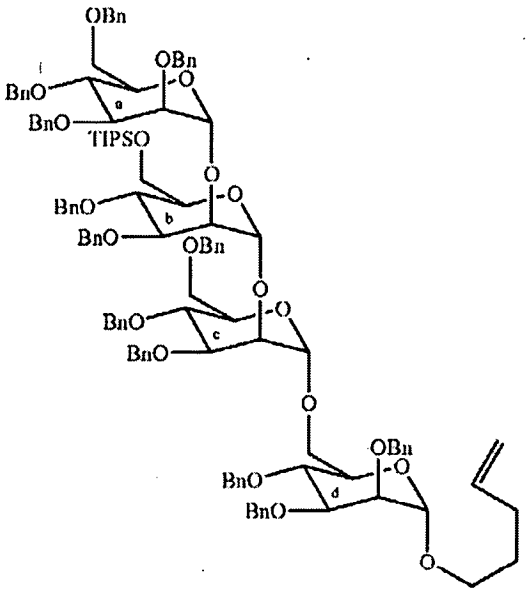
14. **(original)** The compound of claim 11, wherein m is 3.

15. **(original)** The compound of claim 11, wherein R represents independently for each occurrence $-CH_2$-aryl or $-Si(alkyl)_3$.

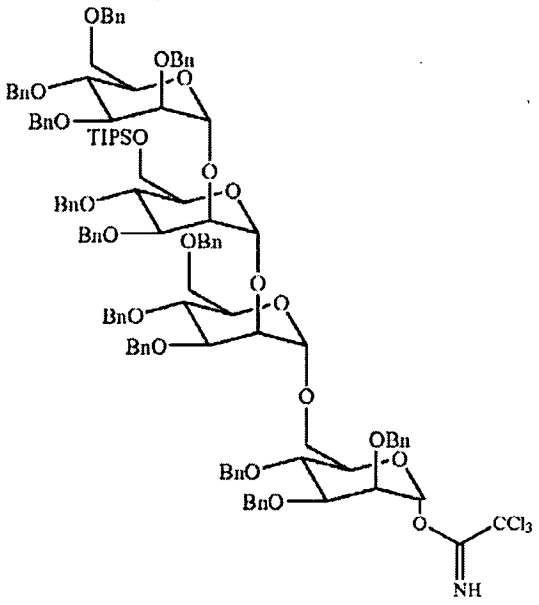
16. **(original)** The compound of claim 11, wherein R represents independently for each occurrence benzyl or $-Si(iPr)_3$.

17. **(previously presented)** The compound of claim 11, wherein R^1 is trichloroacetimidate and R represents independently for each occurrence benzyl or $-Si(iPr)_3$.

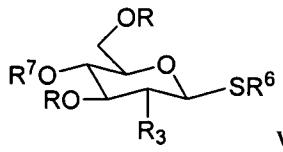
18. **(previously presented)** The compound of claim 11, wherein said compound of formula **II** is selected from the group consisting of:

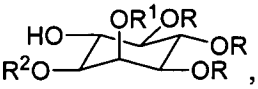


and



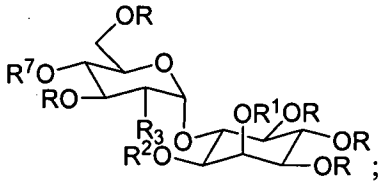
19. **(previously presented)** A method comprising the step of:

admixing a compound represented by 

with a compound represented by 

, followed by the addition, together or separately of *N*-

iodosuccinimide and silver triflate, thereby forming a compound represented by



; wherein,

R represents independently for each occurrence H, alkyl, aryl, -CH_2-aryl, -C(O)-alkyl, -C(O)-aryl, or -Si(alkyl)$_3$;

R^1 and R^2 are independently H, -CH_2-aryl, -C(O)-alkyl, -C(O)-aryl, -Si(alkyl)$_3$; or R^1 and R^2 taken together are $C(CH_3)_2$, P(O)OH, or $P(O)OR^5$;

R^3 is amino, $-N_3$, or $-NH_3X$;

R^5 represents independently for each occurrence H, Li^+, Na^+, K^+, Rb^+, Cs^+, aryl, or an optionally substituted alkyl group;

R^6 is alkyl or aryl;

R^7 is alkyl, aryl, -CH_2-aryl, -C(O)-alkyl, -C(O)-aryl, or -Si(alkyl)$_3$; and

X is a halogen, alkyl carboxylate, or aryl carboxylate.

20. **(original)** The method of claim 19, wherein R is -CH_2-aryl.

21. **(original)** The method of claim 19, wherein R^1 and R^2 taken together are $C(CH_3)_2$.

22. **(original)** The method of claim 19, wherein R^3 is $-N_3$.

23. **(original)** The method of claim 19, wherein R^6 is alkyl.

24. **(original)** The method of claim 19, wherein R^7 is -C(O)-alkyl.

25. **(original)** The method of claim 19, wherein R is benzyl, R^1 and R^2 taken together are $C(CH_3)_2$, and R^3 is $-N_3$.

26. **(original)** The method of claim 19, wherein R is benzyl, R^1 and R^2 taken together are $C(CH_3)_2$, R^3 is $-N_3$, and R^6 is ethyl.

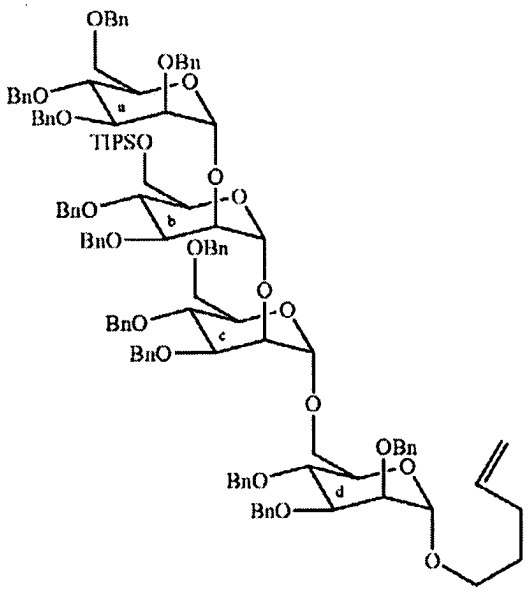
27. **(previously presented)** A method of preparing a tetrasaccharide, comprising the steps of:

covalently binding a mannopyranoside to a solid support to provide a first substrate, reacting said first substrate with a mannopyranose trichloroacetimidate to give a disaccharide bound to said solid support, reacting said disaccharide with a mannopyranose trichloroacetimidate to give a triisaccharide bound to said solid support, reacting said trisaccharide with a mannopyranose trichloroacetimidate to give a tetrasaccharide bound to said solid support, and cleaving said tetrasaccharide from said solid support.

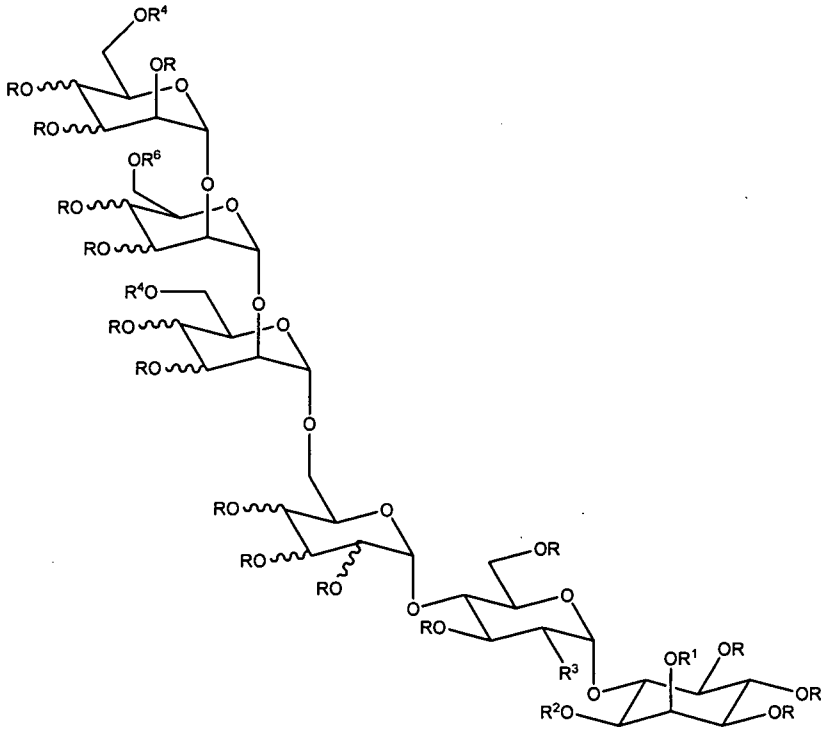
28. **(original)** The method of claim 27, wherein said mannopyranoside is bound to said solid support through a glycosidic linkage.

29. **(original)** The method of claim 27, wherein said tetrasaccharide is cleaved from said solid support using Grubbs' catalyst.

30. **(previously presented)** The method of claim 27, wherein said tetrasaccharide is



31. **(previously presented)** A compound represented by formula **I**:



I

wherein,

R represents independently for each occurrence H, alkyl, aryl, $-CH_2$-aryl, -C(O)-alkyl, -C(O)-aryl, or $-Si(alkyl)_3$;

R^1 and R^2 are independently H, $-CH_2$-aryl, -C(O)-alkyl, -C(O)-aryl, $-Si(alkyl)_3$; or R^1 and R^2 taken together are $C(CH_3)_2$, P(O)OH, or $P(O)OR^5$;

R^3 is amino, $-N_3$, or $-NH_3X$;

R^4 represents independently for each occurrence H, alkyl, aryl, $-CH_2$-aryl, -C(O)-alkyl, -C(O)-aryl, $-Si(alkyl)_3$, or $-P(O)(OR^5)_2$;

R^5 represents independently for each occurrence H, Li^+, Na^+, K^+, Rb^+, Cs^+, aryl, or an optionally substituted alkyl group; and

R^6 represents independently for each occurrence alkyl, aryl, $-CH_2$-aryl, -C(O)-alkyl, -C(O)-aryl, $-Si(alkyl)_3$, or $-P(O)(OR^5)_2$;

X is a halogen, alkyl carboxylate, or aryl carboxylate.

32. **(previously presented)** The compound of claim 31, wherein R is H.

33. **(previously presented)** The compound of claim 31, wherein R^1 and R^2 taken together are $P(O)OR^5$.

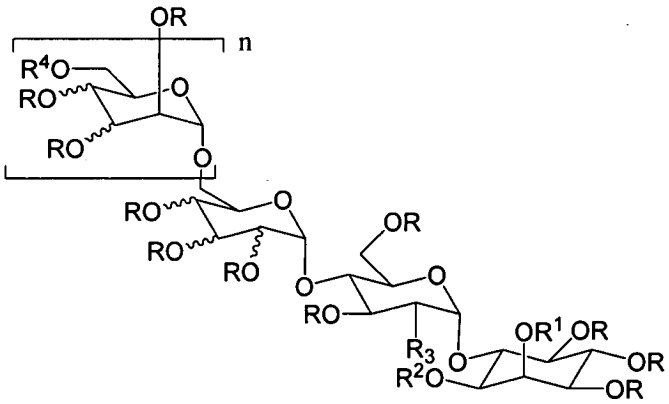
34. **(previously presented)** The compound of claim 31, wherein R^3 is $-NH_3X$.

35. **(previously presented)** The compound of claim 31, wherein R^4 is H.

36. **(previously presented)** The compound of claim 31, wherein R^6 is $-P(O)(OR^5)_2$.

37. **(previously presented)** The compound of claim 31, wherein R is H; R^1 and R^2 taken together are $P(O)OR^5$; R^3 is $-NH_3X$; R^4 is H; and R^6 is $-P(O)(OR^5)_2$.

38. **(new)** A compound represented by formula **I**:



I

wherein,

n is 1;

R represents independently for each occurrence H, alkyl, aryl, $-CH_2$-aryl, -C(O)-alkyl, -C(O)-aryl, or $-Si(alkyl)_3$;

R^1 is $-CH_2$-aryl, -C(O)-alkyl, -C(O)-aryl, $-Si(alkyl)_3$;

R^2 is $-CH_2$-aryl, -C(O)-alkyl, -C(O)-aryl, $-Si(alkyl)_3$; or R^1 and R^2 taken together are $C(CH_3)_2$, P(O)OH, or $P(O)OR^5$;

R^3 is amino, $-N_3$, or $-NH_3X$;

R^4 represents independently for each occurrence alkyl, aryl, $-CH_2$-aryl, -C(O)-alkyl, -C(O)-aryl, $-Si(alkyl)_3$, or $-P(O)(OR^5)_2$;

R^5 represents independently for each occurrence H, Li^+, Na^+, K^+, Rb^+, Cs^+, aryl, or an optionally substituted alkyl group; and

X is a halogen, alkyl carboxylate, or aryl carboxylate.